Zlotnicki, V. ., California Inst Technology - Jet Propulsion Lab, Pasadena, USA, vzlotnicki@jpl.nasa.gov

## LARGE SCALE MODES OF BOTTOM PRESSURE VARIABILITY FROM GRACE AND THE ECCO MODEL - REVISITED

The ECCO baroclinic numerical model (version JPL-kf066f) which assimilates altimetry and XBT, shows basin-scale modes in bottom pressure (BP)with most energy at annual, but also shorter periods. The ECCO-II high resolution baroclinic model, without data assimilation, also does. Similar modes were seen by Stepanov and Hughes (2006) in a barotropic model, and explained in terms of a mass exchange between the Pacific and Southern Ocean. We also see these modes in the GRACE monthly data, interpreted as bottom pressure variations. This presentation takes advantage of the latest releases of GRACE data, with much improved accuracy and corrections, and also seeks to understand weaker interannual components in these signals.

Poster presentation

Presentation is given by student: No
Session #:145
Date: 03-05-2008
Time: 17:30 - 19:30

Back